Amendment of the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

- 1. (original) A process for extending the lifespan of a metazoan or metazoan cells comprising administering to said metazoan a composition comprising a C₆₀ compound having x pairs of adjacent carbon atoms bonded to two carbons of said C₆₀ compound wherein said adjacent carbon atom is further bonded to two groups of a general formula -COOH and -R, wherein R is independently selected from the group consisting of -COOH and -H, and wherein x is at least 1.
 - 2. (original) The process of claim 1 where x is 4.
- 3. (original) The process of claim 2 wherein said composition comprises said C_{60} compound, its pharmaceutically acceptable salts and pharmaceutically accepted esters, and a pharmaceutically acceptable carrier, present in said composition in a therapeutically effective amount.
 - 4. (original) The process of claim 1 wherein x is 3.
- 5. (original) The process of claim 4 wherein said C_{60} compound is C_3 tris malonic acid C_{60} .
- 6. (original) The process of claim 1 wherein said C₆₀ compound is administered intravenously, intramuscularly, subcutaneously or orally.
- 7. (original) The process of claim 6 wherein said C₆₀ compound is administered intravenously, intramuscularly or subcutaneously in an amount of at least 0.1 mg/kg.
- 8. (original) The process of claim 7 wherein said C₆₀ compound is administered intravenously, intramuscularly or subcutaneously in an amount of about 3 mg/kg.

- 9. (original) The process of claim 6 wherein said C_{60} compound is administered orally in an amount of at least 0.1 mg/kg.
- 10. (original) The process of claim 6 wherein said C₆₀ compound is administered orally in an amount of about 15 mg/kg.
- 11. (original) The process of claim 7 wherein said C₆₀ compound is administered daily.
- 12. (original) The process of claim 9 wherein said C₆₀ compound is administered daily.
 - 13. (original) The process of claim 1 wherein said metazoan is a vertebrate.
 - 14. (original) The process of claim 1 wherein said metazoan is a mammal.
 - 15. (original) The process of claim 1 wherein said metazoan is a human.
- 16. (original) A process for extending a metazoan's lifespan comprising regularly administering a superoxide dismutase-mimetic to said metazoan wherein said metazoan's lifespan is extended.
- 17. (original) The process of claim 16 wherein said superoxide dismutase-mimetic comprises a non-metallic compound.
- 18. (original) The process of claim 17 wherein said superoxide dismutase-mimetic comprises a carboxyfullerene.
- 19. (original) The process of claim 18 wherein said carboxyfullerene comprises a C_{60} compound having x pairs of adjacent carbon atoms bonded to two carbons of said C_{60} compound wherein said adjacent carbon atom is further bonded to two groups of a general formula -COOH and -R, wherein R is independently selected from the group consisting of -COOH and -H, and wherein x is at least 1.
 - 20. (original) The process of claim 19 wherein x is about 4.

- 21. (original) The process of claim 19 wherein x is 3.
- 22. (original) The process of claim 21 wherein said C_{60} compound is C_3 tris malonic acid C_{60} .
- 23. (original) The process of claim 18 wherein said carboxyfullerene is administered intravenously, intramuscularly, subcutaneously or orally.
- 24. (original) The process of claim 23 wherein said carboxyfullerene is administered intravenously, intramuscularly or subcutaneously in an amount of at least 0.1 mg/kg.
- 25. (original) The process of claim 24 wherein said carboxyfullerene is administered intravenously, intramuscularly or subcutaneously in an amount of about 3 mg/kg.
- 26. (original) The process of claim 18 wherein said carboxyfullerene is administered orally in an amount at least 0.1 mg/kg.
- 27. (original) The process of claim 26 wherein said carboxyfullerene is administered orally in an amount of about 15 mg/kg.
 - 28. (original) The process of claim 24 wherein said compound is administered daily.
 - 29. (original) The process of claim 26 wherein said compound is administered daily.
 - 30. (original) The process of claim 16 wherein said metazoan is a human.
- 31. (original) A process for extending a metazoan's lifespan comprising regularly administering an antioxidant compound to said metazoan, wherein said compound is introduced into said metazoan intravenously, intramuscularly, subcutaneously or through oral delivery.
- 32. (original) The process of claim 31 wherein said compound comprises a C₆₀ compound having x pairs of adjacent carbon atoms bonded to two carbons of said C₆₀ compound wherein said adjacent carbon atom is further bonded to two groups of a general formula -COOH and -R, wherein R is independently selected from the group consisting of -COOH and -H, and wherein x is at least 1.

- 33-55. (canceled).
- 56. (original) A process for extending the lifespan of a human comprising administering to said human a composition comprising a C₆₀ compound having x pairs of adjacent carbon atoms bonded to two carbons of said C₆₀ compound wherein said adjacent carbon atom is further bonded to two groups of a general formula -COOH and -R, wherein R is independently selected from the group consisting of -COOH and -H, and wherein x is at least 1.
 - 57. (original) The process of claim 56 where x is about 4.
- 58. (original) The process of claim 56 wherein said composition comprises said C₆₀ compound, its pharmaceutically acceptable salts and pharmaceutically accepted esters, and a pharmaceutically acceptable carrier, present in said composition in a therapeutically effective amount.
 - 59. (original) The process of claim 56 wherein x is 3.
- 60. (original) The process of claim 59 wherein said C_{60} compound is C_3 tris malonic acid C_{60} .
- 61. (original) The process of claim 56 wherein said C_{60} compound is administered intravenously, intramuscularly, subcutaneously or orally.
- 62. (original) The process of claim 61 wherein said C_{60} compound is administered intravenously, intramuscularly or subcutaneously in an amount of at least 0.1 mg/kg.
- 63. (original) The process of claim 62 wherein said C_{60} compound is administered intravenously, intramuscularly or subcutaneously in an amount of about 3 mg/kg.
- 64. (original) The process of claim 61 wherein said C_{60} compound is administered orally in an amount of at least 0.1 mg/kg.
- 65. (original) The process of claim 64 wherein said C_{60} compound is administered orally in an amount of about 15 mg/kg.

- 66. (original) The process of claim 62 wherein said C₆₀ compound is administered daily.
- 67. (original) The process of claim 64 wherein said C₆₀ compound is administered daily.
- 68. (original) A process for extending a human's lifespan comprising regularly administering an antioxidant compound to said human, wherein said compound is introduced into said human intravenously, intramuscularly, subcutaneously or through oral delivery.
- 69. (original) The process of claim 68 wherein said compound comprises a C_{60} compound having x pairs of adjacent carbon atoms bonded to two carbons of said C_{60} compound wherein said adjacent carbon atom is further bonded to two groups of a general formula -COOH and -R, wherein R is independently selected from the group consisting of -COOH and -H, and wherein x is at least 1.